

AGENDA: July 8, 2003

4.15

CATEGORY: Consent

DEPT.: Public Works

TITLE: Traffic Signal Battery Back-Up System,
Project 04-34—Approve Plans and
Authorize Bidding

RECOMMENDATION

1. Approve plans and specifications for Traffic Signal Battery Back-Up System, Project 04-34, and authorize staff to advertise for bids.
2. Authorize the City Manager to award the construction contract to the lowest responsible bidder if the low bid is within the construction budget.

FISCAL IMPACT

Traffic Signal Battery Back-Up System, Project 04-34, was approved and funded as part of the 2003-04 Capital Improvement Program with a total budget of approximately \$465,000. The City is eligible for a one-time-only grant of up to \$156,940 to install battery back-up equipment at City-owned traffic signals without this equipment. The grant will fund about one-third of the project cost with the City, providing a local match to cover about two-thirds of the project cost. The local match will be funded from Gas Tax (\$100,000), the Shoreline Community Fund (\$60,000) and Property/Construction Conveyance Tax Fund (\$150,000). The total project cost is estimated at approximately \$465,000.

BACKGROUND AND ANALYSIS

The City recently received a grant from the California Energy Commission to partially fund battery back-up equipment for the City's traffic signals that currently do not have this equipment. In emergency situations during power outages, City maintenance crews are deployed to place temporary stop signs at critical intersections and Police personnel are often deployed to direct traffic. The battery back-up equipment can operate an LED-equipped traffic signal for one to two hours of normal operation, plus two to four hours of intersection flash operation, thereby enhancing maintenance staff's and Police staff's ability to respond to other community needs during these emergency situations.

Battery back-up equipment has recently been installed at seven City traffic signals: six along Grant Road as part of the Grant Road interconnect system and one at the Evelyn Avenue/Pioneer Way intersection. Battery back-up equipment will also be installed at the two new traffic signals included in the Evelyn Avenue Improvement Project. The proposed

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project will install battery back-up equipment at the remaining 59 City-owned signalized intersections. Attachment 1 is a listing of these locations.

The cost of the project is estimated as follows:

Construction	\$400,000
Construction Contingency	20,000
Design	8,500
Inspection/Testing	<u>8,000</u>
Subtotal	\$436,500
City Administration @ 6.5%	<u>28,500</u>
TOTAL PROJECT COST	<u>\$465,000</u>

Since the grant funds must be spent by December 31, 2003, the City must complete the installation and submit a claim for the grant funds by that time. Bids are scheduled to be opened on July 30, 2003. Since the next City Council meeting after bid opening is August 19, 2003, staff recommends the City Council authorize the City Manager to award the contract to the lowest responsible bidder if the low bid is within the construction budget. This will enable the work to begin in August to ensure the installation can be completed and the grant funds claimed by December 31, 2003.

PUBLIC NOTICING—Agenda posting.

Prepared by:

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JMV/9/CAM/903-07-08-03M-E^

Attachment: 1. Listing of Back-Up Equipment Locations

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cc: APWD—Ko, APWD—Russell, TE, STE, CE, F/c